

# Don't Miss the Bus

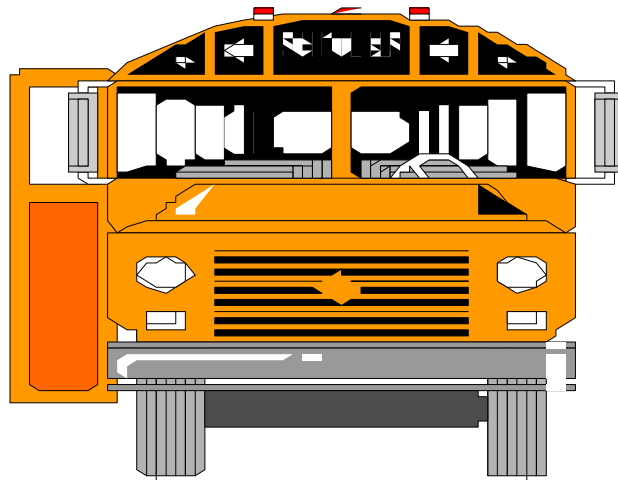
Math Performance Event

Grades 4-6

by

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# Don't Miss the Bus

**Purpose:** This performance event will assess the students' ability to use their computational skills to figure time lapse. Then, they will explain the process used to make a schedule. The students are asked to use a game schedule and compute what time students will need to leave the school to get to the game on time. They are also asked to figure the estimated time of arriving home. Bus Requests and a Bus Schedule for Parents will be completed by students and will specify arrival times and departure times.

**Show-Me Standards Addressed:**

Knowledge: M1

Performance: 3.4

**Grade Level Range:** Elementary Level (Grades 4-6)

**Subject Area:** Math

**Materials and Resources Needed:** Pencil, Student Performance Event Packet (including the Student Prompt, the Bus/ Time Schedule, the Response Sheets, and the Scoring Guide).

**Time Needed for Event:** 45-60 minutes

**Instructions for Administration:** Provide students with a Student Performance Event Packet. Make sure they understand the directions within the student prompt. Tell students they will need to use the Student Response Sheets to show their work and record their findings. Also, they will need to write the process used to find their answer.

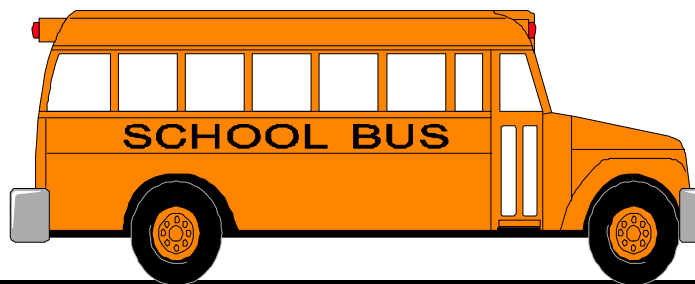
**Pre-assessment Instructions:** Students will have to have the prerequisite knowledge of using computational skills of addition, subtraction, multiplication, and division, completing forms, and developing strategies or processes for solving complex problems. Discuss various ways of solving complex problems (i.e. the use of formulas, the guess and check method, etc.)

# Don't Miss the Bus

You are a team manager for the Junior Varsity High School Basketball Team. It is your job to help the coach write bus requests and make a bus schedule for parents.

In order to complete the bus requests, you will need to use the Game/ Time Schedule provided. It will be necessary to determine what time the bus needs to leave the high school in order to arrive at the game 30 minutes before game time for warm-up.

On the Bus Schedule for Parents, list the times the bus leaves from the high school and will arrive back to the high school. Then, write an explanation of how you arrived at these times.



## Game/Time Schedule

All conference games begin at 7:00 p.m.

Each game lasts 2 hours

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<u>Date</u>	<u>Place</u>	<u>Game Begins</u>	<u>Travel Time</u>
November 19	Crest Ridge	7:00 p.m.	45 minutes
November 25	Santa Fe	7:00 p.m.	30 minutes
December 3	Concordia	7:00 p.m.	15 minutes
December 10	Orrick	7:00 p.m.	1 hour

# Don't Miss the Bus

## Response Sheet #1

Complete the bus requests. You will need to use the Game/ Time Schedule provided. Remember, the team needs to arrive at the game 30 minutes before game time for warm-up, and each game lasts 2 hours.

Note: The sponsor is Coach Smith. The principal's name is Mr. Jones.

### Bus Request for 1st Game

Date:\_\_\_\_\_

Group:\_\_\_\_\_

Leave High School:\_\_\_\_\_

Arrive back at High School:\_\_\_\_\_

Name of sponsor:\_\_\_\_\_

Name of principal:\_\_\_\_\_

### Bus Request for 2nd Game

Date:\_\_\_\_\_

Group:\_\_\_\_\_

Leave High School:\_\_\_\_\_

Arrive back at High School:\_\_\_\_\_

Name of sponsor:\_\_\_\_\_

Name of principal:\_\_\_\_\_

### Bus Request for 3rd Game

Date:\_\_\_\_\_

Group:\_\_\_\_\_

Leave High School:\_\_\_\_\_

Arrive back at High School:\_\_\_\_\_

Name of sponsor:\_\_\_\_\_

Name of principal:\_\_\_\_\_

### Bus Request for 4th Game

Date:\_\_\_\_\_

Group:\_\_\_\_\_

Leave High School:\_\_\_\_\_

Arrive back at High School:\_\_\_\_\_

Name of sponsor:\_\_\_\_\_

Name of principal:\_\_\_\_\_

# Don't Miss the Bus

# Response Sheet #2

Complete the Bus Schedule for Parents. List the times the bus leaves from the high school and will arrive back to the high school. Then, write an explanation of how you arrived at these times.

Bus Schedule for Parents		
Games	Time bus will leave from the high school.	Time bus will arrive back to the high school.
Game #1 Nov. 19 Crest Ridge		
Game #2 Nov. 25 Santa Fe		
Game #3 Dec. 3 Concordia		
Game #4 Dec. 10 Orrick		

Write an explanation of how you arrived at these times.

[illegible]

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## Scoring Guide

- 4** The arrival and departure times are correct. The bus request forms have been completed correctly. There is significant evidence that the student has a clear understanding of the mathematical skills needed to solve the problem. The explanation of the process is complete, focused and easily understood.
- 3** The arrival and departure times are correct with only one exception due to a minor computational error. The bus request forms are for the most part correct. There is evidence that the student has an understanding of the necessary mathematical skills needed to solve the problem but may have a few minor computational mistakes. The explanation of the process is essentially complete but may lack focus at one or two points. It can still be understood.
- 2** Some of the arrival and departure times may be correct. There are many computational errors. The bus requests contain many errors. There is evidence to show that the student has a partial understanding of the mathematics skills needed to solve the problem. The explanation may be incomplete or difficult to understand.
- 1** Few if any of the arrival and departure times are correct. There are many critical computational errors. The bus requests may be incomplete or contain many critical errors. There is little or no evidence to show that the student has an understanding of the mathematics skills needed to solve the problem. The explanation is incomplete, incomprehensible, or nonexistent.
- 0** Off Task or No Attempt